

Title (en)

IMPROVED ALUMINUM ALLOY BRAZING SHEETS FOR FLUXLESS BRAZING

Title (de)

VERBESSERTE HARTLÖTBLECHE AUS ALUMINIUMLEGIERUNG ZUM FLUSSMITTELFREIEN LÖTEN

Title (fr)

TÔLE À BRASAGE AMÉLIORÉE EN ALLIAGE D'ALUMINIUM POUR BRASAGE SANS FLUX

Publication

EP 4037868 A1 20220810 (EN)

Application

EP 20870481 A 20200928

Priority

- US 201962908000 P 20190930
- US 2020053022 W 20200928

Abstract (en)

[origin: WO2021067166A1] New aluminum alloy brazing sheets are disclosed. The new aluminum alloy brazing sheets may include a core, an interliner layer adjacent the core, and a braze liner adjacent the interliner layer. The interliner layer may include a first aluminum alloy having at least 0.35 wt. % Si and from 0.05 to 2.0 wt. % Mg. The braze liner may include a second aluminum alloy having 0.05 to 2.0 wt. % Mg. The first aluminum alloy and the second aluminum alloy may include an amount of magnesium sufficient to achieve $T_{\text{solidus}}(\text{IL}) \geq 5^{\circ}\text{C}$ $T_{\text{liquidus}}(\text{BL})$. The new aluminum alloy brazing products may be useful, for instance, in fluxfree brazing.

IPC 8 full level

B23K 35/02 (2006.01); **B23K 35/28** (2006.01); **B32B 15/01** (2006.01); **C22C 21/06** (2006.01); **C22C 21/10** (2006.01)

CPC (source: CN EP KR US)

B23K 35/0238 (2013.01 - CN EP KR US); **B23K 35/286** (2013.01 - CN EP KR US); **B32B 15/016** (2013.01 - CN EP KR US); **C22C 21/06** (2013.01 - CN EP KR); **C22C 21/08** (2013.01 - EP US); **C22C 21/10** (2013.01 - CN EP KR); **C23C 28/021** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2021067166 A1 20210408; CA 3148817 A1 20210408; CA 3148817 C 20240402; CN 114206541 A 20220318; CN 114206541 B 20231031; EP 4037868 A1 20220810; EP 4037868 A4 20230419; JP 2022547039 A 20221110; KR 20220044796 A 20220411; US 11697179 B2 20230711; US 2022281039 A1 20220908

DOCDB simple family (application)

US 2020053022 W 20200928; CA 3148817 A 20200928; CN 202080056789 A 20200928; EP 20870481 A 20200928; JP 2022514466 A 20200928; KR 20227007811 A 20200928; US 202017597846 A 20200928